

N49RF ERROR SUMMARY
Hurricane Harvey NHC Surv

Flight ID: 20170824N2

Sensor or System -----	Number or Name -----
Static Pressure Probe	PSM.2
Dynamic Pressure Probe	PQM.2
Total Temperature Probe	TTM.4
Dewpoint Temp. Probe	TDM.2
Vertical Accelerometer	AccZI.1
Altimeter	AltGPS.3
INE Selection	1
Differential Attack Pressure Probe	PDALPHA.1
Differential Sideslip Pressure Probe	PDBETA.1
Dynamic Attack Pressure Probe	PQALPHA.1
Dynamic Sideslip Pressure Probe	PQBETA.1

Flight Directory acdata/2017/MET/20170824N2

Local Met Data	Takeoff KLAL (1725Z)	Landing KLAL (0137Z)
Dynamic Corrections		Yes
AttackAngleIntercept		5.1083
AttackAngleSlope		5.91956
SlipAngleIntercept		1.05
SlipAngleSlope		6.80484
AttackAngleIntercept2		5.05312
AttackAngleSlope2		5.74156
SlipAngleIntercept2		0.8
SlipAngleSlope2		6.89644

Notes:

There were no edits made in the measured parameters used to calculate meteorological and navigational parameters.

Takeoff/Landing data: Data during landing and takeoff are potentially suspect. It is recommended that ground data not be used for scientific analysis.

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Dropsondes	37	37	37
Test sondes	0	0	0
AXBTs	0	0	0
AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

Flight Director: Sears/Williams
Phone #: 863-500-3987

ACAT-4 Version = 7.1

U.S. Dep't. of Commerce / OMAO / NOAA / Aircraft Operations Center

FLT ID: 20170824N2	From: KZAL	To: KZAL
FLT #:	Blk In: 0146 Z	Lnd Time: 0141 Z
ETD: Z	Blk Out: 1722 Z	T/O Time: 1729 Z
ETE:	Total Blk: 8.4	Total Flt: 7.8 8.2
Sponsoring Org: NHC	Program: Surveillance	Purpose: Harvey

AOC Flight Crew

Aircraft Commander: MACINTYRE	SSA: DEFED
Co-Pilot: COWAN /	AVAPS: WARNECKE / HASAD
Navigator: /	Scientists:
Flight Eng: /	Scientists
Flt Director: SEARS / WILLIAMS	Scientists
SEB: GREENE /	Scientists:
Crew Chief:	Visitors: / /

	A/C - Takeoff	Wx Station - Takeoff	A/C - Land	Wx Station - Land
Pressure				

AS REQUIRED BY ORM	YES / NO	REMARKS
VOLCANIC ASH		
SCIENCE MISSION WITHIN BOUNDARY LAYER		
LACK OF PRECIPITATION		
RELATIVE HUMIDITY AT OR ABOVE 80%		
LARGE AIR-SEA TEMPERATURE GRADIENT		
HIGH SURFACE WINDS		
LONG FETCH AND/OR DURATION OF SFC WIND		
SEA SALT ACCRETION FORECAST		
SEA SALT ACCRETION OBSERVED		

Dropsondes	37	Good: 37	Bad: 0	Sent: 37
AXBT		Good:	Bad:	Sent:

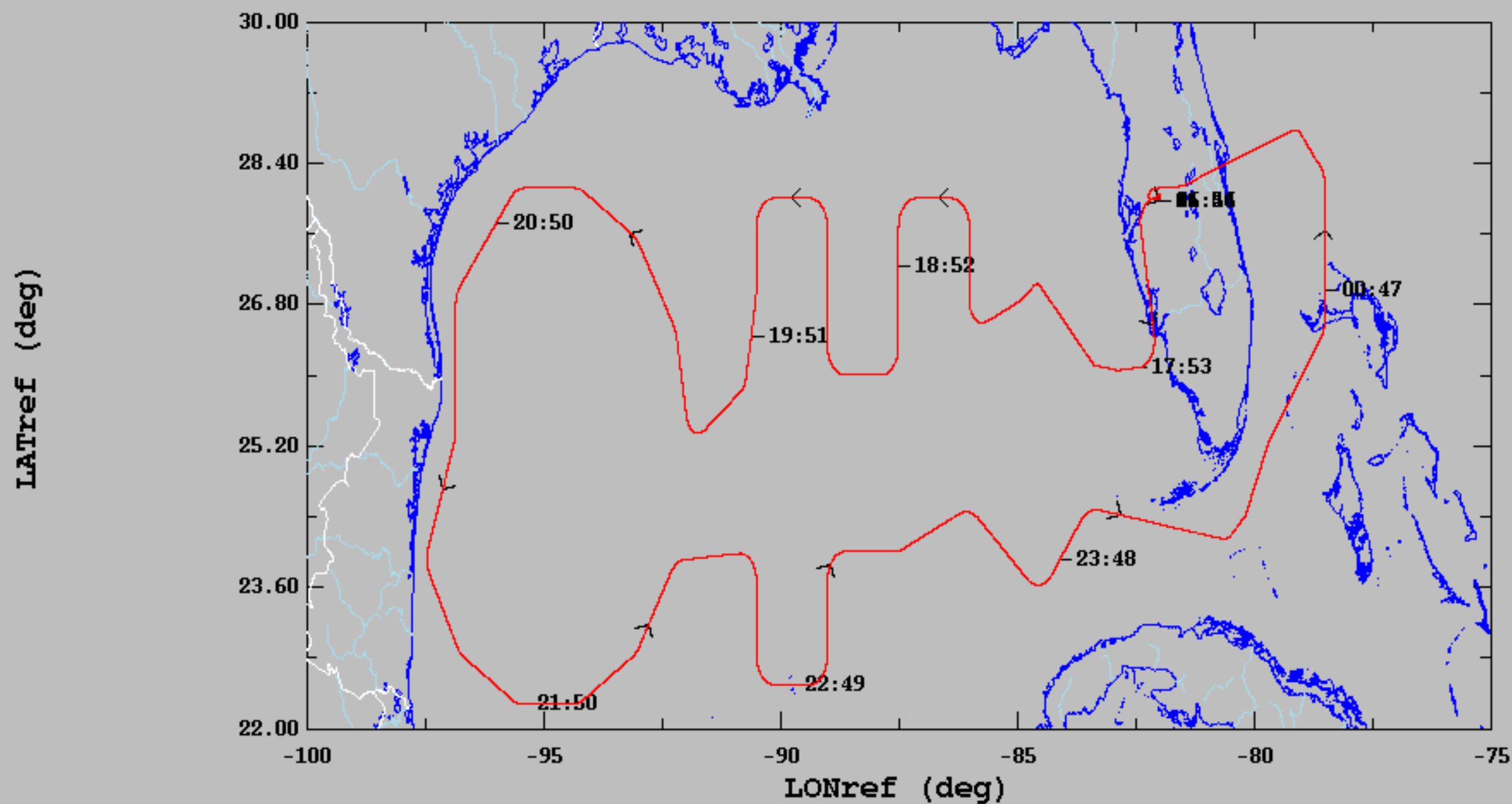
List other data sources in Remarks section

Remarks (Storm VDM Identifier, Mission ID, Fix Times)	Fix #	VDM Ob Num	Fix Time / SLP
Storm Number Identifier (VDM): (ie: AL072012)			
TCPOD/WSPOD Mission ID: (ie: NOAA2 2418A SANDY)			

Remarks:

Hurricane Harvey NHC Surv

08/24/2017, 16:54:24-25:46:31



	mean	sigma	min	max
— LATref (deg), 1 s/sec	25.92	1.93	22.28	28.78
— LONref (deg), 1 s/sec	-87.46	5.64	-97.45	-78.50

N49RF AOC GPS Dropwindsonde Log

Flight ID: 20170824N2

Flight Director: Sears/Williams

Mission ID: 1409A

Storm/Track: H. Harvey

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Drop #	Ob #	Sonde ID	Drop Time (UTC)	Lat (°N)	Lon (°E)	Wx Cond.	L5/R5?	SFC Prs (mb)	Last Wind Alt (m)	Comments	Ch #	SatComm failures	KWBC #
1	1	143245115	175131	26.13	-82.27		R	1011.2		ELD Warn	1		1810
2	2	143245115	180102	26.17	-83.45		R	1011.4			2		1827
3	3	143245104	181225	27	-84.5		R	1011.2			3		1836
4	4	143255567	182346	26.6	-85.8		R	1011.4			4		1850
5	5	143255577	183719	28	-86.2		R	1011.3			1		1903
6	6	1432555045	184707	27.9	-87.4		R	1011.8		No sfwinds	2		1914
7	7	143215001	190139	26.1	-87.6		(R)S	1011.3		no sfw	7		1930
8	8	143255191	191210	26.08	-88.88		RS	1006.4	12		4		1939
9	9	143245008	192217	27.9	-89.1		RS	1001.2			1		1953
10	10	1432555044	193902	27.9	-90.4		RS	1009.8			2		2005
11	11	143215008	195434	26.1	-90.7		RS	1008.2			3		2015
12	12	14335034	200622	25.37	-91.85		RS	1005.7			4		2029
13	13	143215050	201546	26.5	-92.2		RS	1007.1			1		2037
14	14	143255041	202606	27.5	-93.04		RS	1008.1			2		2053
15	15	143335041	203616	28.1	-94.26		RS	1008.1			3		2103
16	16	143415033	204605	28.1	-95.5		RS	1007.9			4		2109
17	17	143245012	210043	26.9	-96.83		RS	1007.7			1		2121
18	18	141335001	211439	25.3	-96.9		RS	1006.5	9.1		2		2142
19	19	143255138	212721	23.9	-97.4		RS	1005.1	9.0		3		2151
20	20	143335001	213842	22.85	-96.75		RS	1005.2	10		4		2201
21	21	143995052	214925	22.29	-95.55		RS	1003.9	8.3		1		2213
22	22	143255557	215956	22.3	-94.22		RS	1003.4	8.6		2		2222
23	23	143255135	221031	22.88	-93		RS	1003.7	8.1		3		2246
24	24	143255553	2221	23.87	-92.16		RS	992.6	7.2		4		2309
25	25	143415071	223318	23.88	-90.54		RS	1006.4	7.6		1		2315
26	26	143215067	224446	22.56	-90.36		RS	1007	5.5		2		2319
27	27	143215006	225627	22.73	-89.02		RS	1008	5.5		3		2321
28	28	143335011	230750	23.9	-88.54		RS	1008.7	10.6		4		2350
29	29	143245057	231843	24.0	-87.46		RS	1010.3	5.7		1		2357
30	30	143255534	233101	24.44	-85.79		RS	1010.0	5.5		2		0000

PARTIAL
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N49RF AOC GPS Dropwindsonde Log

Flight ID: 20170824N2

Flight Director: _____

Mission ID: _____

Storm/Track: _____

Pg ____ of ____

[illegible]

APPENDIX 2 – GIV QC Checklist

Flight ID:	20170824N2
Flight Director(s):	Sears/Williams

Pressure Comparison		
	T/O	Land
Aircraft	1: 1006.3 2: 1007.6	1: 1006.3 2: 1007.5
Tower	1006.9	1007.1
times	1729	0141

UWZ.d mean: ____ 0.13 ____

		Raw 1Hz Mean File Parameters				C File Parameters	
☒	Accelerometer	AccAXI.1	AccAYI.1	AccAZI.1		AccZref	
		AccAXI.2	AccAYI.2	AccAZI.2			
		AccAXI.3	AccAYI.3	AccAZI.3			
☒	Altitude	AltGPS.1	AltI.1	AltPaADDU.1	AltBCADDU.1	ALTref	
		AltGPS.2	AltI.2	AltPaADDU.2	AltBCADDU.2	ALTPA.d	
		AltGPS.3	AltI.3	AltRA.1		ALTGA.d	
☒	Ground Speed	GsXI-GPS.1	GsXI.1	GsGPS.1	GsXGPS.1	GSXref	
		GsXI-GPS.2	GsXI.2	GsGPS.2	GsXGPS.2	GSYref	
		GsYI-GPS.1	GsXI.3		GsYGPS.1	GSZref	
		GsYI-GPS.2	GsYI.1	GsZI.1	GsYGPS.2		
		GsZI-GPS.1	GsYI.2	GsZI.2	GsZGPS.1		
		GsZI-GPS.2	GsYI.3	GsZI.3	GsZGPS.2		
☒	Lat/Lon	LatGPS.1	LatI.1	LonGPS.1	LonI.1	LATref	
		LatGPS.2	LatI.2	LonGPS.2	LonI.2	LONref	
		LatGPS.3		LonGPS.3			
☒	Pressure	PDALPHA.1	PQALPHA.1	PQM.1	PSM.1	PDALPHAref	PQMref
		PDALPHA.2	PQALPHA.2	PQM.2	PSM.2	PDBETAref	PQ.c
		PDBETA.1	PQBETA.1	PQM.11	PSM.11	PQALPHAref	PSMref
		PDBETA.2	PQBETA.2			PQBETAref	PS.c
☒	Air Speed	CasADDU.1	TasADDU.1	IasADDU.1		IAS.d	TAS.d
☒	Pitch/Roll	PitchI.1	PitchRateI.1	RollI.1	RollRateI.1	PITCHref	
		PitchI.2	PitchRateI.2	RollI.2	RollRateI.2	ROLLref	
		PitchI.3	PitchRateI.3	RollI.3	RollRateI.3		
☒	Temp/Dewpt	TTM.1	TTM.11	TDM.1		TD.c	TTMref
		TTM.2	TTM.13	TDM.2		TDMref	TA.d
		TTM.3	TTM.4	TDM.11			
☒	Miscellaneous (must check)					UWZ.d	WS.d
						DPJ_WSZ	WD.d
						HUM	

Mission Documents:

☒	Error Summary
☒	Crew Manifest
☒	QC checklist
☒	Dropwindsonde Log(s) – AVAPS and FD if completed
☒	trackplot

NOTES: